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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/006,183	12/03/2001	Qingsheng Zhu	20010214.ORI	8861	
23595 75	590 04/02/2004		EXAM	EXAMINER	
NIKOLAI & MERSEREAU, P.A. 900 SECOND AVENUE SOUTH			MANUEL,	MANUEL, GEORGE C	
SUITE 820			ART UNIT	PAPER NUMBER	
MINNEAPOLI	S, MN 55402		3762 Z DATE MAILED: 04/02/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		_	111			
••	Application No.	Applicant(s)				
	10/006,183	ZHU ET AL.				
Office Action Summary	Examiner	Art Unit				
	George Manuel	3762				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence ad	Idress			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some and patent term adjustment. See 37 CFR 1.704(b).	ON. R-1.136(a). In no event, however, may a ron. a reply within the statutory minimum of thirteriod will apply and will expire SIX (6) MON tatute, cause the application to become AB	eply be timely filed y (30) days will be considered timel THS from the mailing date of this c ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on _						
2a)☐ This action is FINAL . 2b)⊠	☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for all	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	ler <i>Ex par</i> te Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-17 is/are pending in the applica	tion.					
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.		,				
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers	•					
9)☐ The specification is objected to by the Exa	miner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	d Office Action or form P	TO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National	Stage			
Attachment(s)	" .					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	<i>'</i>	nformal Patent Application (PT	O-152)			

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Art Unit: 3762

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-3, 5-7 and 13-16 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kadhiresan '081.

Kadhiresan discloses an implantable device 12 comprising a microprocessor 26, a memory 28, means for sensing respiratory activity and heart sounds comprising accelerometer 34.

Regarding claims 6 and 7, it is inherent the device is capable of being responsive to a Cheyne-Stokes or apnea respiratory pattern, see col. 4, lines 7-65.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-12 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadhiresan '081.

Kadhiresan shows all of the claimed features except for using atrial fibrillation, dyssynchronny or cardiac depolarization anomalies, or exercise induced heart rate for the predetermined event.

One of ordinary skill in the art would have found it obvious to use the above cardiac events for initiating data collection because these relate to tachyrhythmia detectable by ECG module 24, see col. 2, lines 10-27.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kadhiresan '081 in view of Riff '353.

Kadhiresan shows all of the claimed features except for means for sensing variations in transthoracic impedance due to respiratory activity.

Riff teaches measuring thoracic region impedances using an implantable device.

One of ordinary skill in the art would have found it obvious to use the teaching of Riff to modify the sensor 34 of Kadhiresan to measure transthoracic impedance because the teaching of Riff applies to pacemaker sensing of respiratory activity in a similar device as the Kadhiresan device.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (703) 308-2118.

George Manuel Primary Examiner Art Unit: 3762

3/30/04